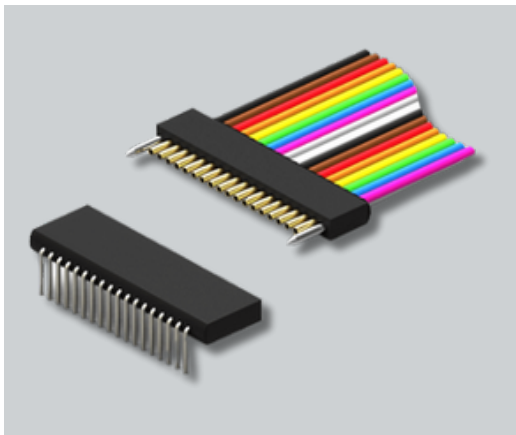


# Single Row Series Connectors

Winchester Interconnect Micro offers Nano Strip Single Row Series Connectors, precision-engineered for high-density, lightweight interconnect applications. Featuring a durable plastic strip and wire leads, these connectors perform reliably across extreme temperature ranges from  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ , and even up to  $200^{\circ}\text{C}$  with the high-temperature (HT) option. As a QPL-qualified supplier for MIL-DTL-32139 products, Winchester ensures military-grade quality and performance for critical systems requiring miniature, robust connectivity.

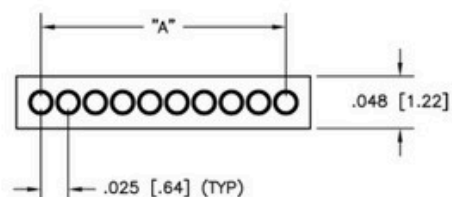
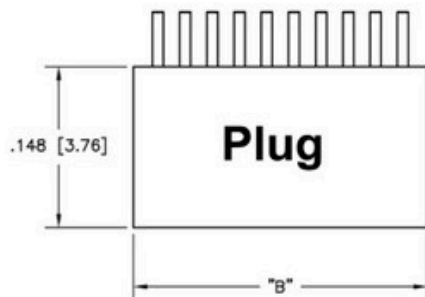
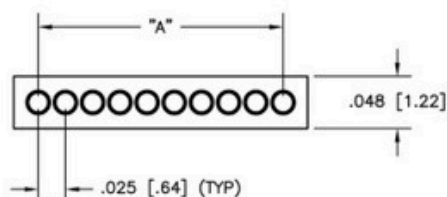
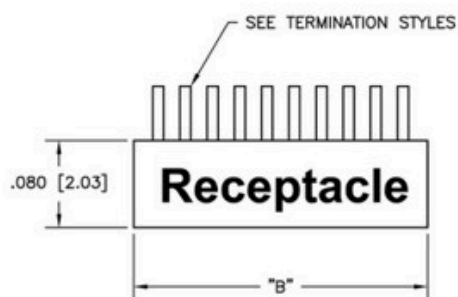


## KEY FEATURES & BENEFITS

- Wide Temperature Range – Operates from  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ ; high-temperature (HT) versions withstand up to  $200^{\circ}\text{C}$ .
- Versatile Configurations – Available with 2 to 40 contacts and optional guide posts for secure alignment.
- High-Quality Contact Materials – Signal Pin and Socket Contacts made from C17410 Beryllium Copper for superior conductivity and resilience.
- Durable Plating Options – Contacts feature Gold plating, and PC Tails are offered in 60/40 Tin/Lead or Gold plating for corrosion resistance and stable electrical performance.
- Rugged Construction – Shell and insulator made from LCP (GLCP-30F) or PPS (MIL-M-24519 GST-40F), providing excellent mechanical and thermal stability.
- QPL Qualified to MIL-DTL-32139 – Meets stringent military specifications for nano connector reliability and consistency.
- Lightweight and Compact – Ideal for applications requiring miniaturized interconnects without compromising strength or durability.

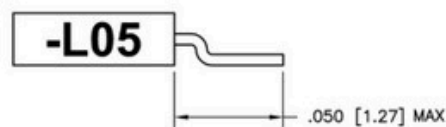
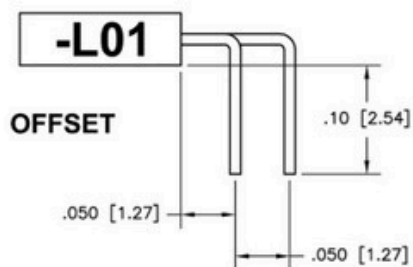
# Nano Strip Single Row Series Connectors

## DIMENSIONAL

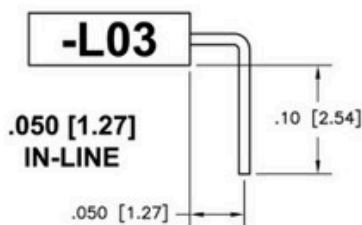


$A = (\text{NO. OF POSITIONS} - 1) \times .025 [.64] \text{ 1ST TO LAST CONTACT}$

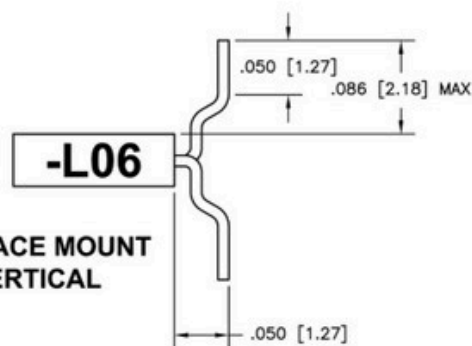
$B = A + .050 [1.27] = \text{OVERALL}$



**SURFACE MOUNT**



**IN-LINE**



**SURFACE MOUNT VERTICAL**

RECEPTACLE (SOCKET) TERMINATIONS ARE SELF-LEAD (ONE PIECE) .014 [.35] DIAMETER

PLUG (PIN) TERMINATIONS ARE SOLID 30 AWG .010 [.25] DIAMETER

BOTH ARE SOLDER OR TIN DIP

# Nano Strip Single Row Series Connectors

## PERFORMANCE

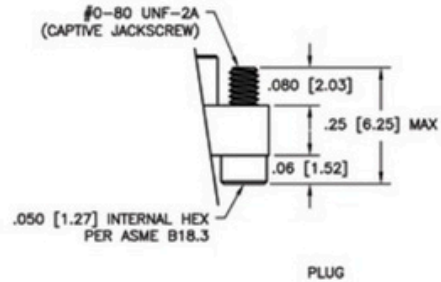
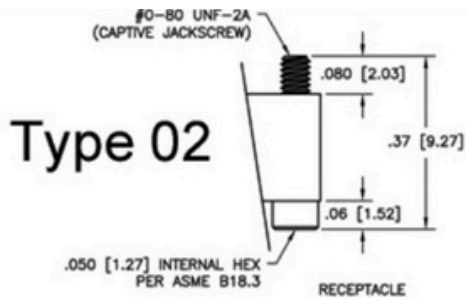
| Electrical Properties           |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Contact Resistance              | 33 milliohm max contact only and 87 milliohms max with 6" wire @ 1A    |
| Current Rating                  | 1A max.                                                                |
| Dielectric WithStanding Voltage | 250 VAC at sea level, 100 VAC at 70,000 feet. 1mA leakage current max. |
| Insulation Resistance           | 100 VDC and 5000 Megohms min.                                          |

| Mechanical Properties |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| Engaging Force        | 5 oz max.                                                            |
| Separation Force      | .4 oz min.                                                           |
| Mating/Unmating Force | 7 oz x # of contacts max.                                            |
| Vibration             | EIA-364-28 Condition IV, 1 microsecond max discontinuity             |
| Shock                 | EIA-364-27 Condition G, 1 microsecond max discontinuity              |
| Durability            | EIA-364-09, 200 matings, passes Mating Force, CR, Eng and Sep Forces |
| Salt Spray            | EIA 364-26 Condition B-48 hours                                      |

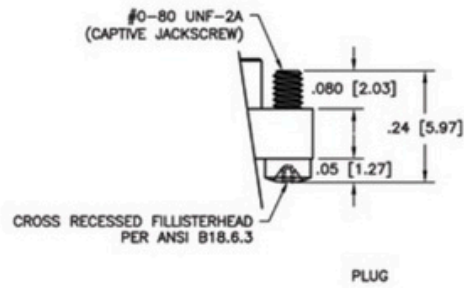
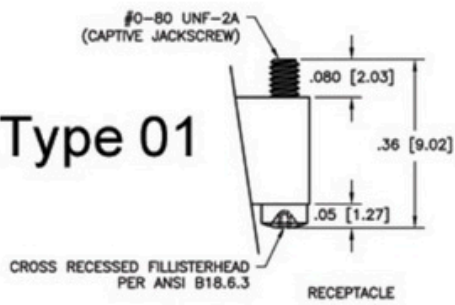
# Nano Strip Single Row Series Connectors

## HARDWARE

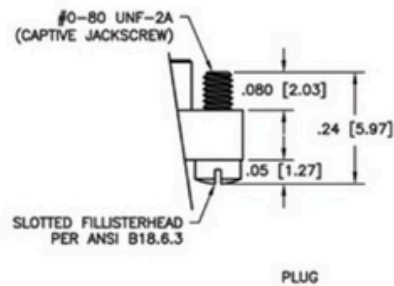
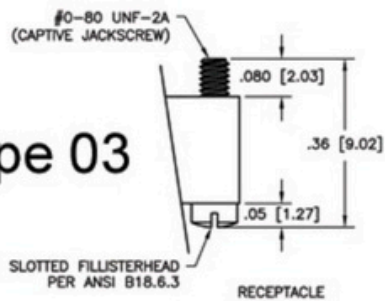
### Type 02



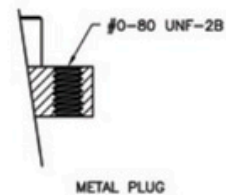
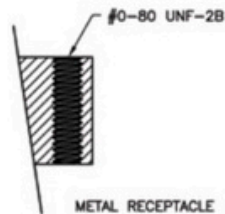
### Type 01



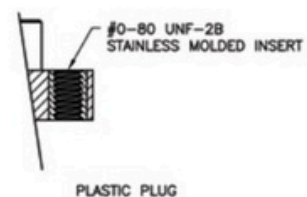
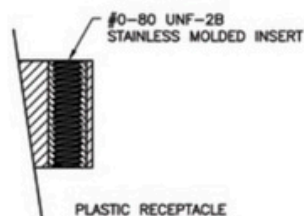
### Type 03



### Type 07



### Type 07



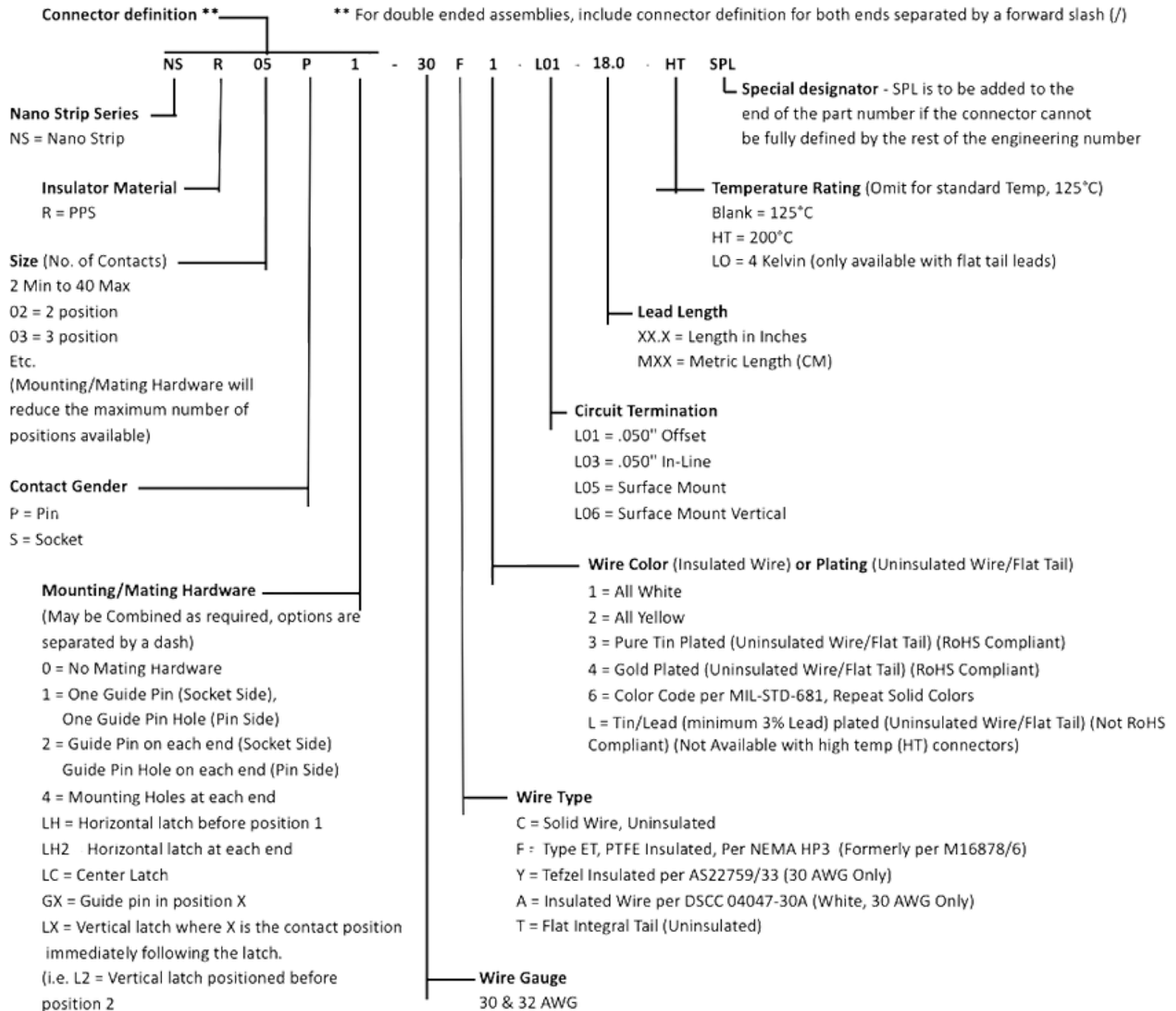
# Nano Strip Single Row Series Connectors

## MATERIALS

| Materials and Finishes |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| Signal Pin Contacts    | C17410 Beryllium Copper per ASTM B768                                                           |
| Signal Socket Contacts | C17410 Beryllium Copper per ASTM B768                                                           |
| Contact Plating        | Gold Plating per ASTM B488                                                                      |
| PC Tails               | C17410 Beryllium Copper per ASTM B768                                                           |
| PC Tail Plating        | 60/40 Tin/Lead plating per SAE-AMS-P-81728, or Gold plating per ASTM B488                       |
| Shell                  | LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F                             |
| Insulator Material     | LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F                             |
| Hardware               | 300 Series Stainless Steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS-2700 |

# Nano Strip Single Row Series Connectors

## HOW TO ORDER



(i.e. L2 = Vertical latch positioned before position 2)